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## NATA

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LumCAT: 1567-E	
Luminaire: 92.70.051.00	
Report No: NATA0100	Voltage(V): 10.2200
Test No: GC2019010805	Current(A): 0.6000
LampCAT: BRIDGELUX V6	Power (W): 6.1320
Lamp flux(lm): 519.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 21	Width(mm): 21
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 449.12  
Efficiency(%): 86.54%  
Lumens(lm)/Power(W): 73.44  
Central intensity(cd): 274.795  
Maximum intensity(cd): 284.498  
Angle of maximum intensity: C=0.0  $\gamma$ =15.0  
Beam Angle(50%Imax): [C0/180]Total=82.9  
                                  [C90/270]Total=82.9  
Field angle(10%Imax): [C0/180]Total=102.2  
                                  [C90/270]Total=102.2  
Maximum s/h(1/2): C0\_180=1.26 C90\_270=1.26  
Maximum s/h(1/4): C0\_180=1.21 C90\_270=1.21  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 86.77%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.861%

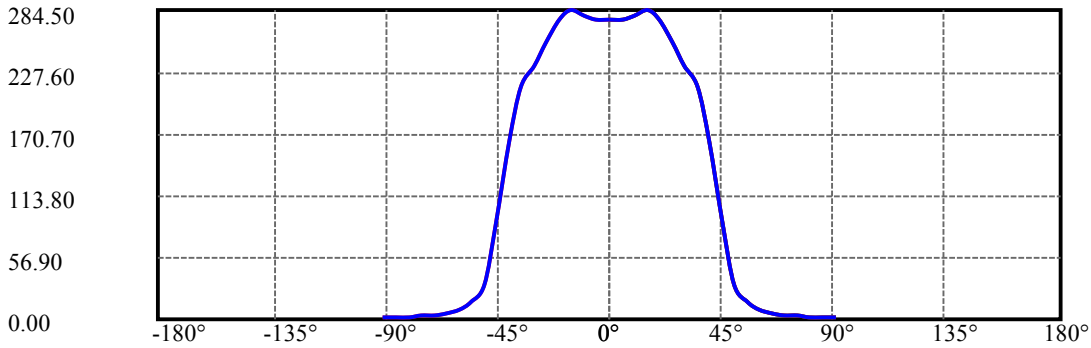
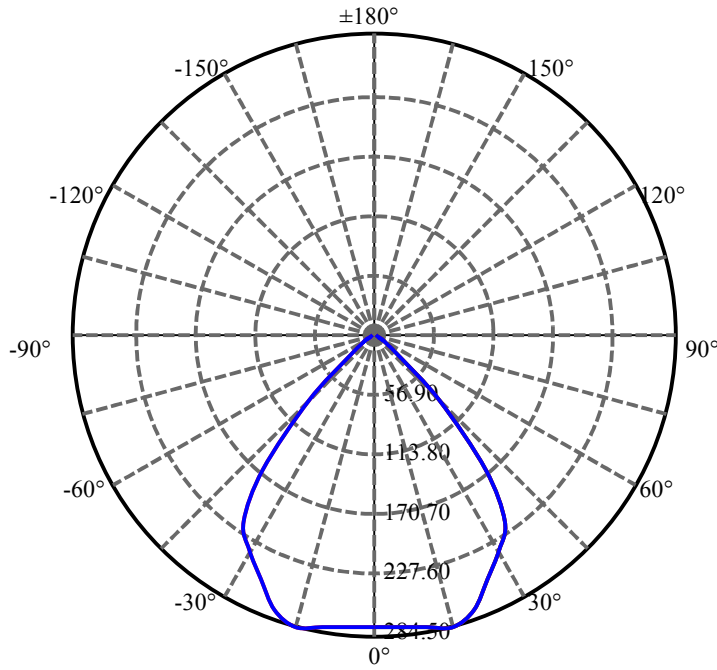
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	274.795	1.643	1.643	.317%	.366%
5.0	275.878	13.180	14.823	2.539%	3.300%
10.0	279.345	26.589	41.412	5.123%	9.221%
15.0	284.498	40.361	81.773	7.777%	18.207%
20.0	276.511	51.839	133.612	9.988%	29.750%
25.0	254.813	59.028	192.64	11.373%	42.893%
30.0	233.845	64.090	256.729	12.349%	57.163%
35.0	213.940	67.262	323.992	12.960%	72.140%
40.0	164.911	58.104	382.096	11.195%	85.077%
45.0	87.806	34.033	416.129	6.557%	92.655%
50.0	31.873	13.383	429.512	2.579%	95.635%
55.0	16.249	7.296	436.808	1.406%	97.259%
60.0	8.205	3.895	440.703	.751%	98.126%
65.0	4.711	2.340	443.044	.451%	98.647%
70.0	3.417	1.760	444.804	.339%	99.039%
75.0	2.749	1.456	446.259	.280%	99.363%
80.0	2.363	1.275	447.535	.246%	99.647%
85.0	2.081	1.136	448.671	.219%	99.900%
90.0	1.631	0.447	449.118	.086%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	256.73	49.47%	57.16%
0-40	382.10	73.62%	85.08%
0-60	440.70	84.91%	98.13%
0-90	448.67	86.45%	99.90%
0-120	448.67	86.45%	99.90%
0-180	449.12	86.54%	100.00%
60-90	11.86	2.29%	2.64%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-38.04	359.29	69.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	41.41
10-20	92.20
20-30	123.12
30-40	125.37
40-50	47.42
50-60	11.19
60-70	4.10
70-80	2.73
80-90	1.14
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

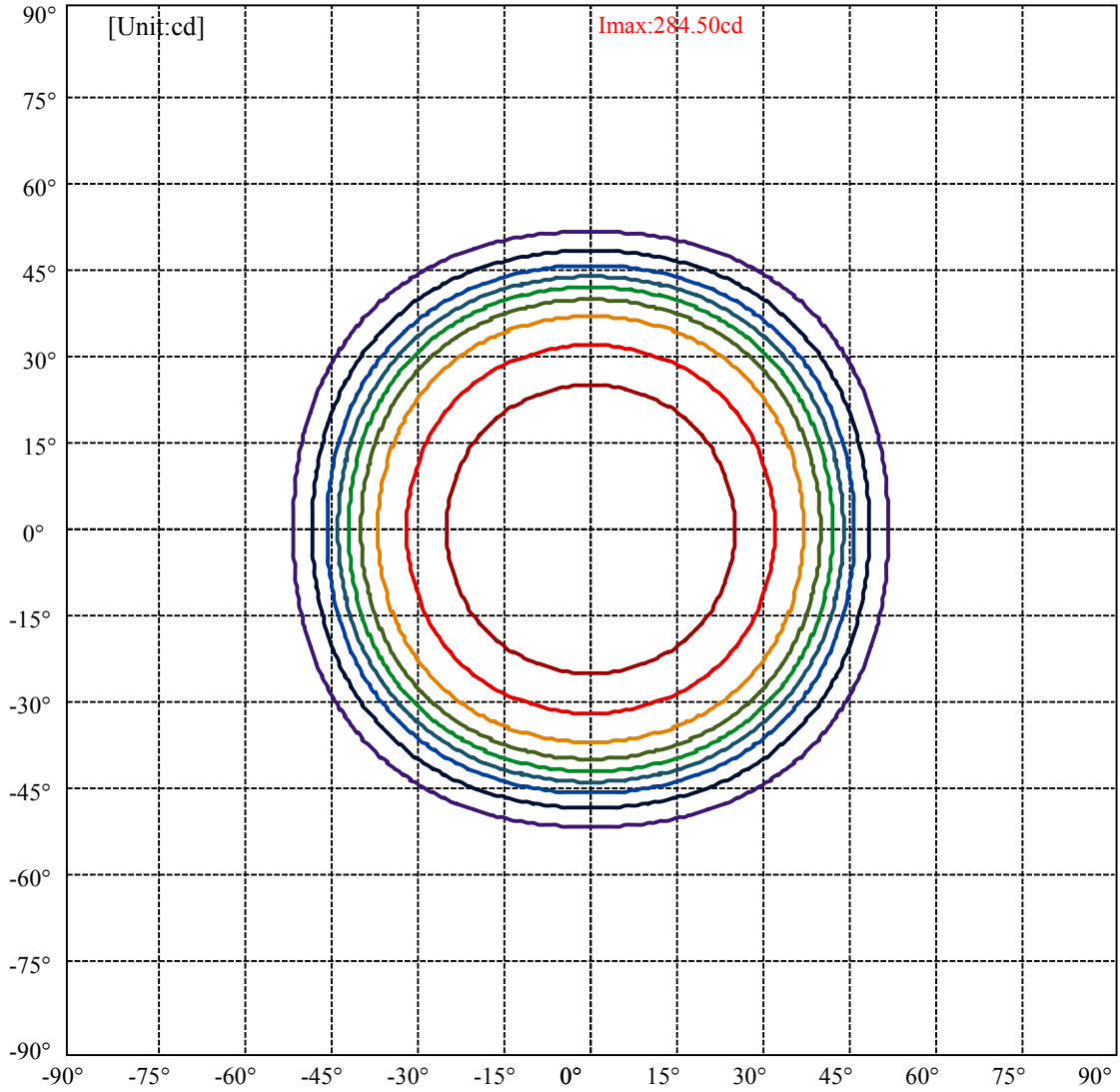


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:66.1 Right:36.1  
:C90/270Left:66.1 Right:36.1

Beam Angle(50%Imax):C0/180Left:56.5 Right:26.5  
:C90/270Left:56.5 Right:26.5



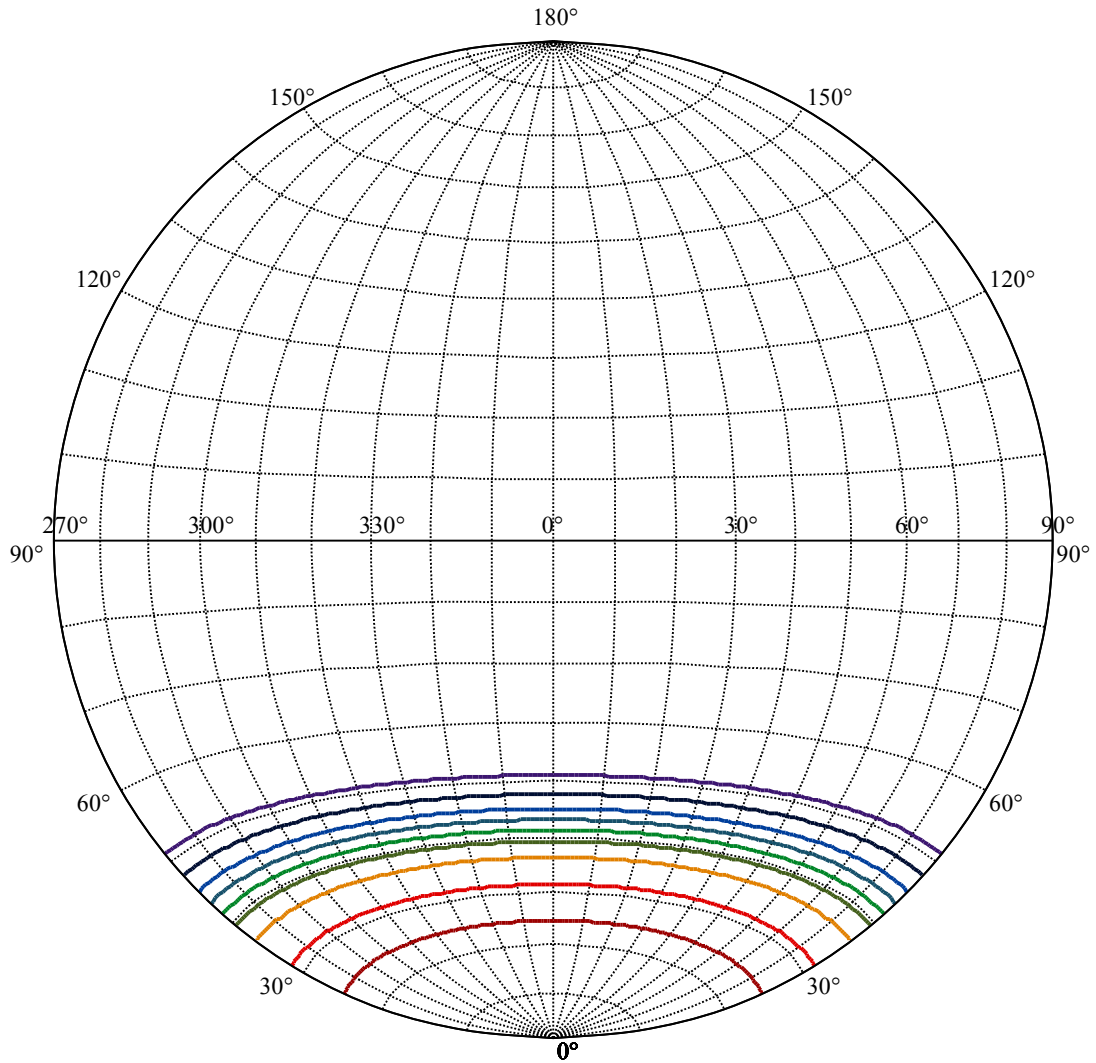


(10%Imax) 28.4498	—
(20%Imax) 56.8997	—
(30%Imax) 85.3495	—
(40%Imax) 113.799	—
(50%Imax) 142.249	—
(60%Imax) 170.699	—
(70%Imax) 199.149	—
(80%Imax) 227.599	—
(90%Imax) 256.049	—

Equipment: GMS1980  
Temperature(°C): 10.0

Date: 2019/1/8  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50



House

[Unit:cd]

Road

**Imax:284.50**

(10%Imax) 28.4498

(20%Imax) 56.8997

(30%Imax) 85.3495

(40%Imax) 113.799

(50%Imax) 142.249

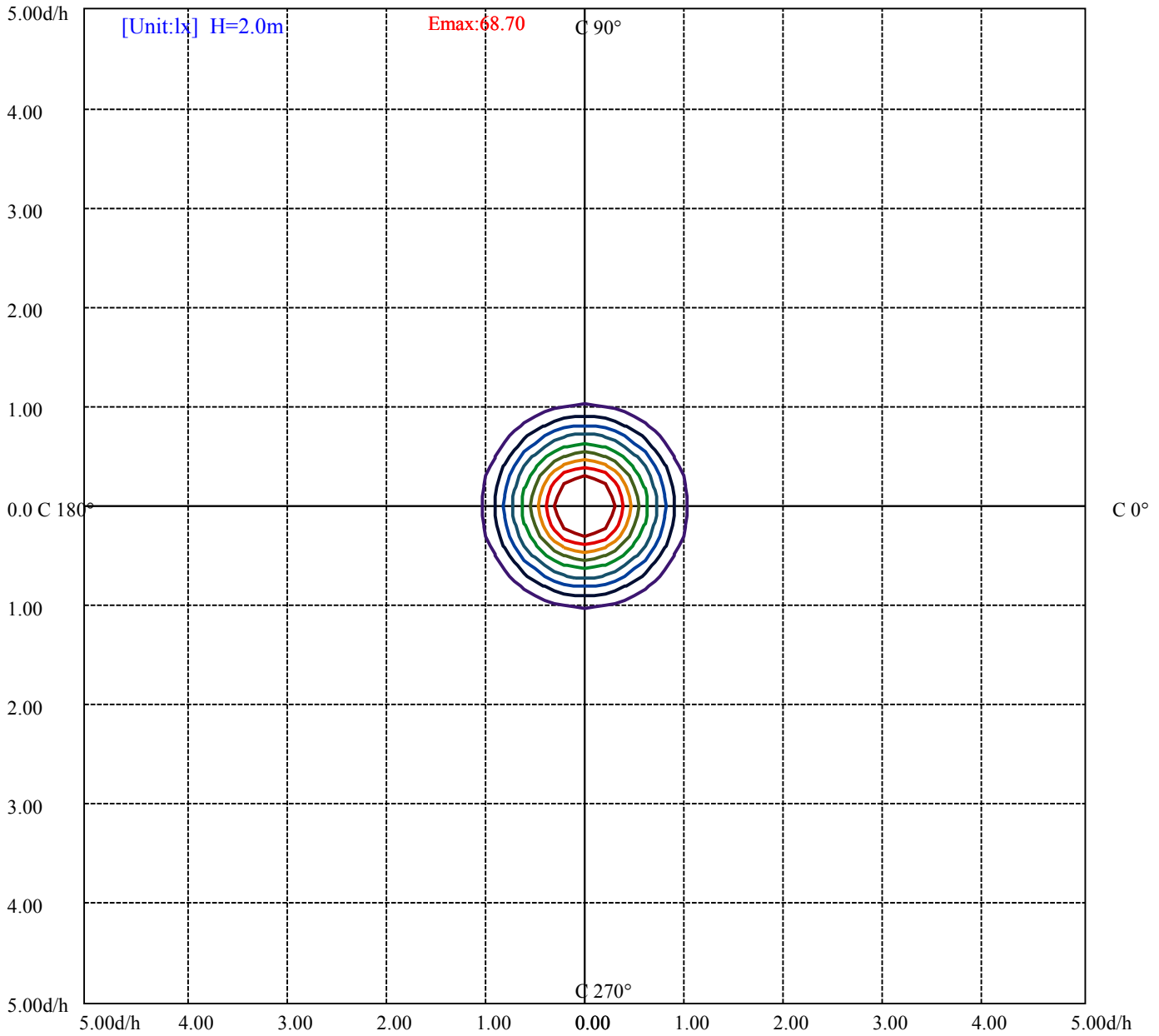
(60%Imax) 170.699

(70%Imax) 199.149

(80%Imax) 227.599

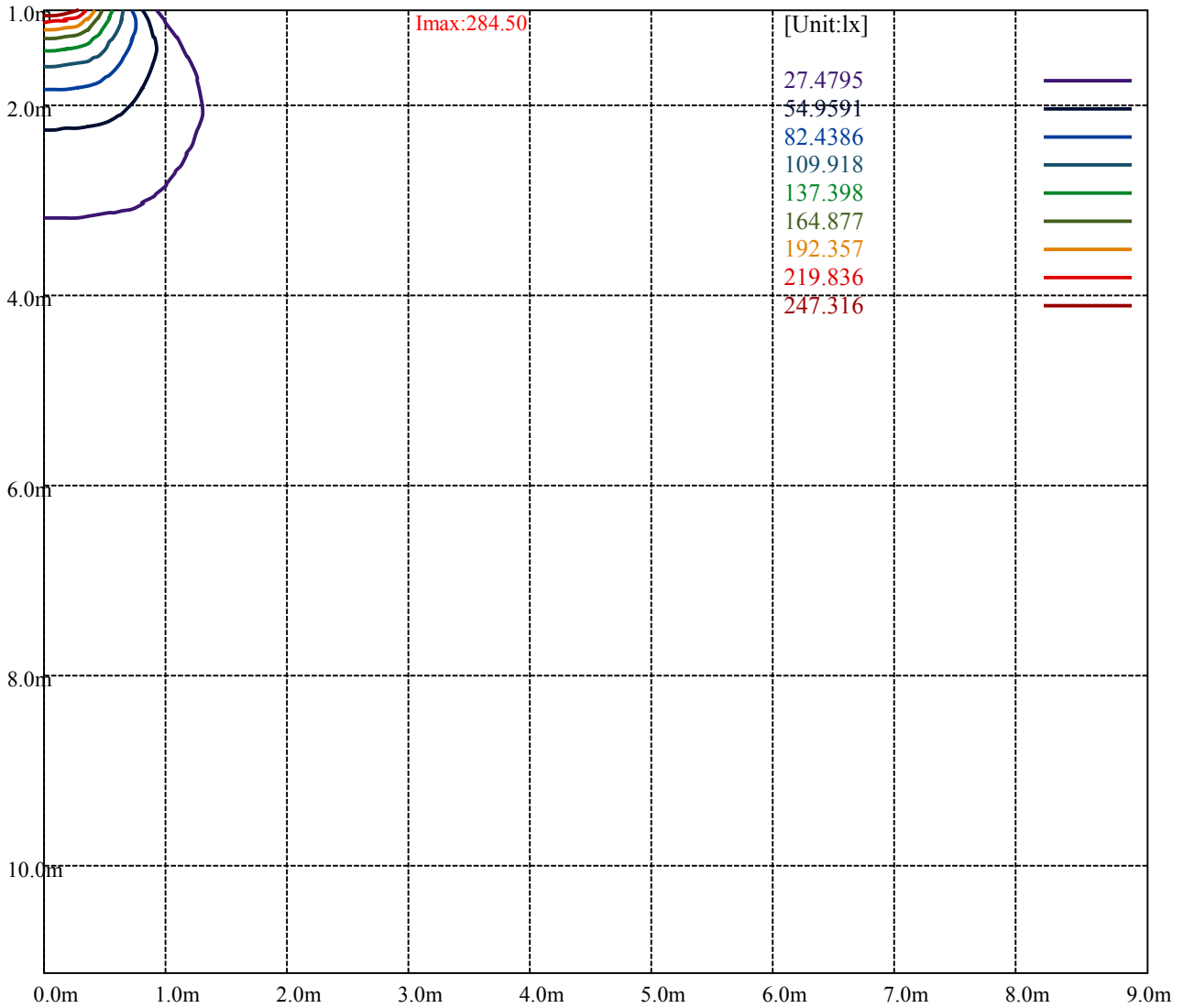
(90%Imax) 256.049





(10%Emax) 6.869875	—
(20%Emax) 13.73977	—
(30%Emax) 20.60965	—
(40%Emax) 27.4795	—
(50%Emax) 34.3495	—
(60%Emax) 41.21925	—
(70%Emax) 48.08925	—
(80%Emax) 54.959	—
(90%Emax) 61.829	—





Luminance Table

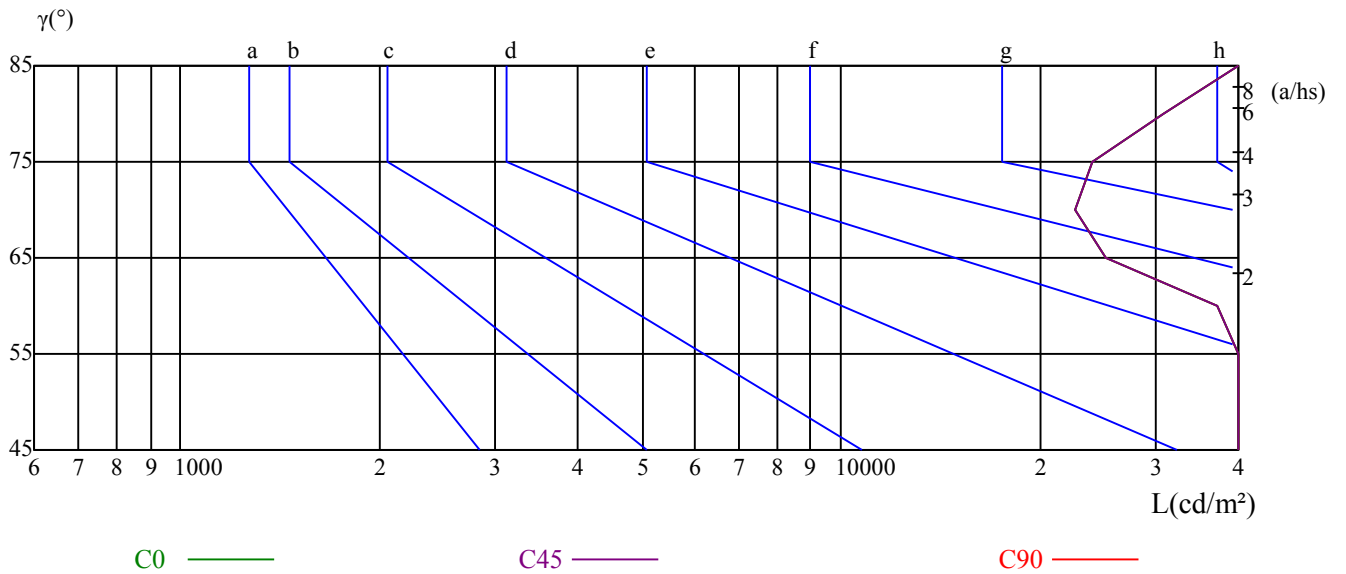
$\gamma$	45	50	55	60	65	70	75	80	85
C0	281580	112438	64240	37213	25277	22656	24087	30851	54149
C45	281580	112438	64240	37213	25277	22656	24087	30851	54149
C90	281580	112438	64240	37213	25277	22656	24087	30851	54149

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
25277	25277	25277	24087	24087	24087	54149	54149	54149

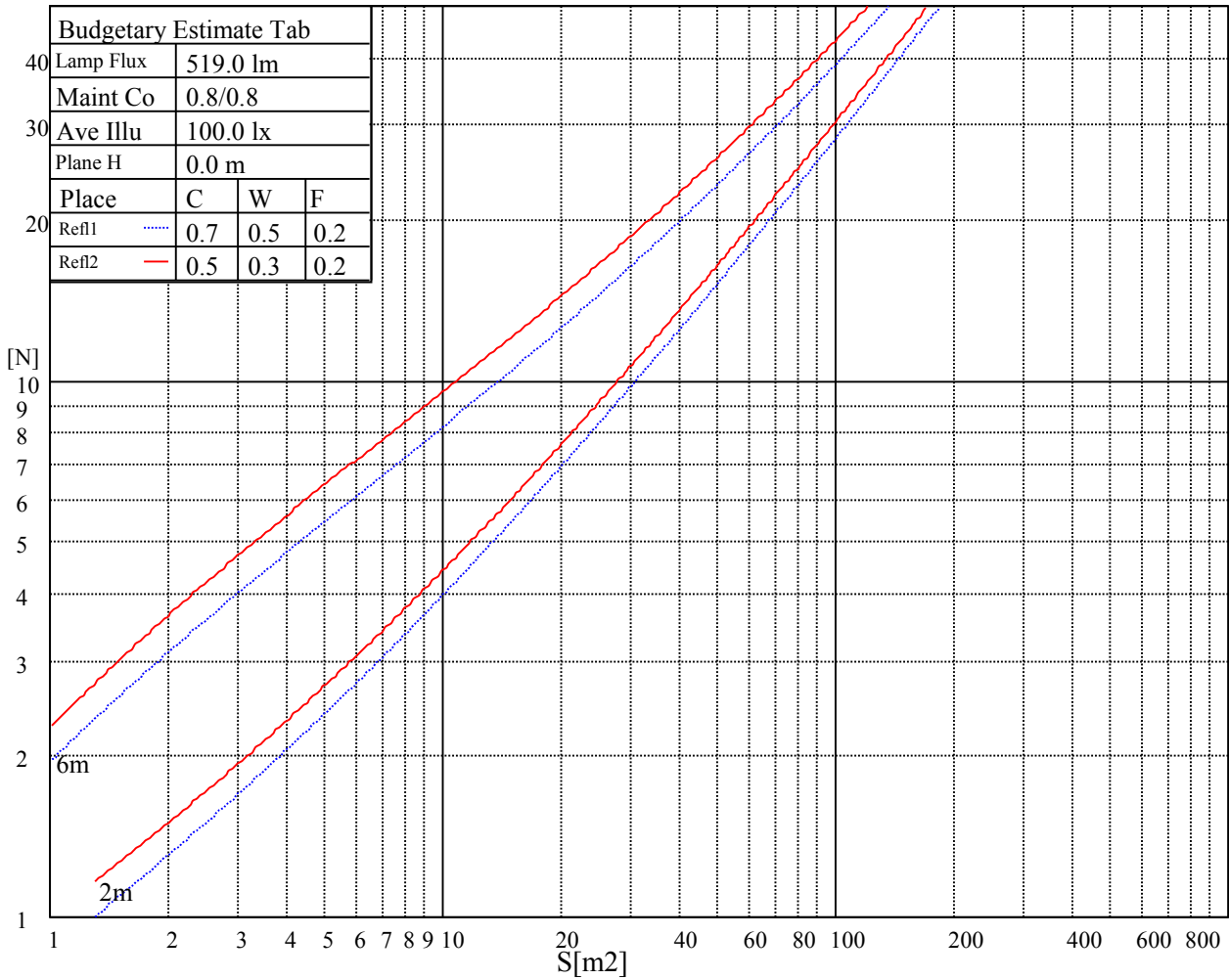
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

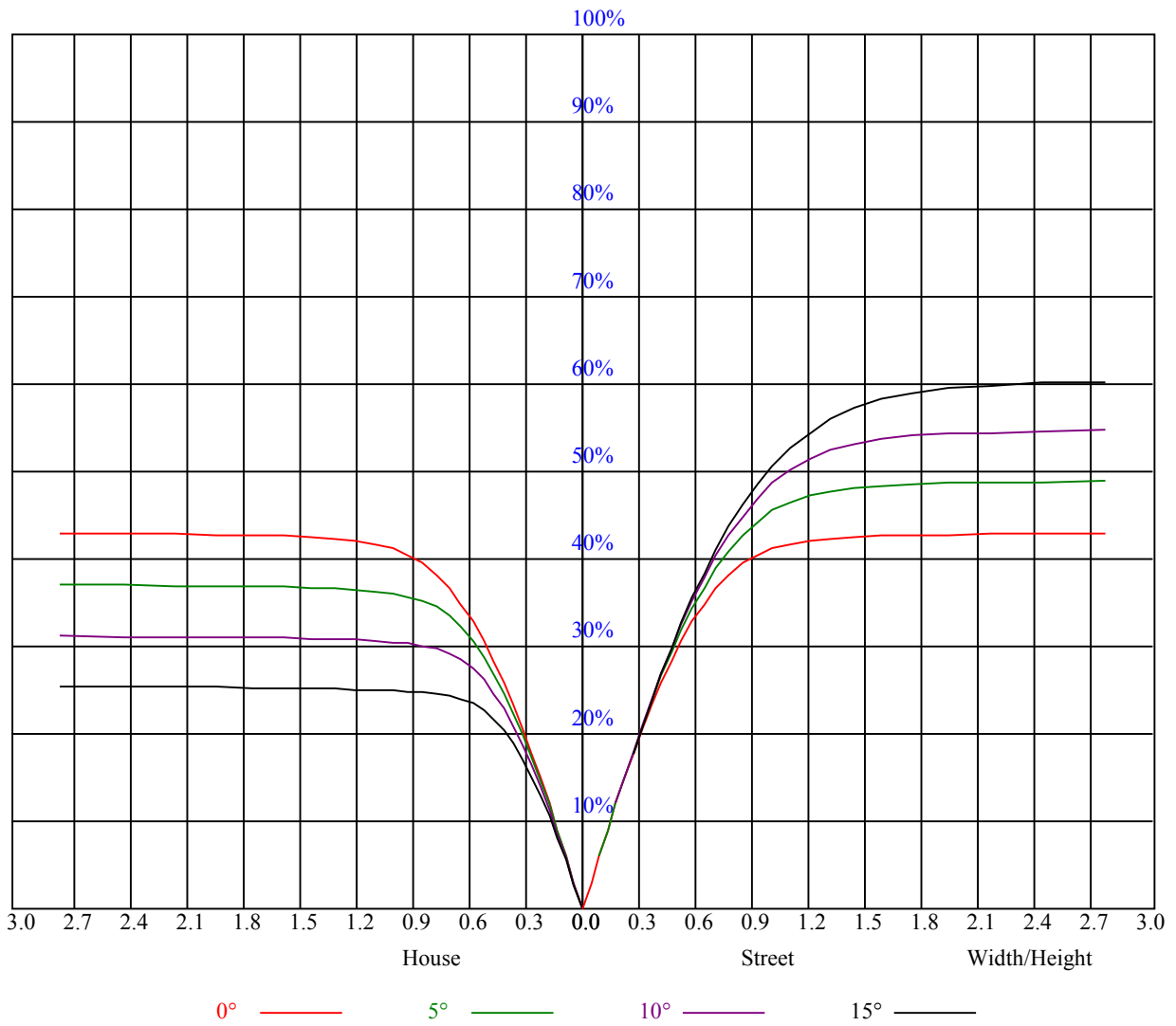
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	22.75	23.91	23.12	24.22	24.54	22.93	24.09	23.30	24.41	24.72
	3H	23.22	24.24	23.60	24.57	24.94	23.37	24.39	23.75	24.72	25.09
	4H	23.50	24.45	23.91	24.80	25.18	23.63	24.58	24.04	24.93	25.32
	6H	23.90	24.76	24.32	25.14	25.53	24.01	24.87	24.42	25.24	25.64
	8H	24.17	24.98	24.60	25.37	25.78	24.26	25.08	24.69	25.47	25.87
	12H	24.73	25.51	25.16	25.89	26.32	24.81	25.58	25.24	25.97	26.40
4H	2H	22.77	23.72	23.18	24.07	24.46	22.94	23.88	23.35	24.24	24.62
	3H	23.42	24.19	23.84	24.60	25.00	23.56	24.32	23.97	24.73	25.13
	4H	23.85	24.53	24.28	24.95	25.40	23.96	24.64	24.39	25.06	25.51
	6H	24.38	24.97	24.85	25.42	25.89	24.48	25.06	24.94	25.51	25.98
	8H	24.79	25.34	25.26	25.79	26.26	24.87	25.41	25.34	25.86	26.34
	12H	25.48	25.96	25.97	26.45	26.92	25.54	26.02	26.03	26.51	26.98
8H	4H	23.98	24.52	24.45	24.97	25.45	24.08	24.63	24.55	25.08	25.55
	6H	24.74	25.18	25.24	25.68	26.17	24.82	25.26	25.32	25.76	26.24
	8H	25.32	25.72	25.85	26.24	26.73	25.38	25.78	25.91	26.30	26.79
	12H	26.41	26.76	26.92	27.26	27.83	26.44	26.79	26.96	27.29	27.87
12H	4H	24.00	24.48	24.49	24.96	25.44	24.10	24.58	24.59	25.06	25.54
	6H	25.27	25.24	25.37	25.71	26.26	25.35	25.32	25.45	25.79	26.33
	8H	25.53	25.89	26.05	26.38	26.96	25.59	25.94	26.11	26.44	27.01
Variation with the observer position at spacings:											
S = 1.0H	2.6/-6.5					2.6/-6.5					
S = 1.5H	4.3/-7.9					4.3/-7.9					
S = 2.0H	6.2/-7.4					6.2/-7.4					
Standard tables:	BK1					BK1					
Uncorrected UGR	10.4					10.4					



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.89	0.89	0.89	0.87
1	0.95	0.92	0.90	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.79
2	0.87	0.83	0.80	0.86	0.82	0.79	0.83	0.80	0.77	0.80	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.76	0.72	0.79	0.75	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.66
4	0.75	0.69	0.65	0.74	0.69	0.65	0.72	0.67	0.64	0.70	0.66	0.63	0.68	0.65	0.62	0.61
5	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
6	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.60	0.56	0.53	0.52
7	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.48
8	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.53	0.49	0.46	0.44
9	0.52	0.47	0.43	0.52	0.47	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.42	0.41
10	0.49	0.44	0.40	0.49	0.43	0.40	0.48	0.43	0.40	0.47	0.43	0.40	0.47	0.42	0.40	0.38



NATA 1567-E

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	272.87	275.91	280.69	288.45	282.88	261.06	239.63	227.08	183.15
45.0	277.65	279.68	280.52	283.95	276.75	256.11	228.83	205.99	161.72
90.0	275.23	274.11	273.49	274.78	265.39	243.96	221.63	197.89	150.58
135.0	273.43	271.18	271.69	276.02	271.13	252.17	233.94	215.72	171.68
180.0	272.87	272.31	275.12	281.08	273.21	254.87	237.43	218.53	161.49
225.0	277.65	277.99	282.04	286.88	276.64	251.49	232.43	210.71	157.05
270.0	275.23	278.10	284.57	292.28	284.57	262.58	238.39	217.01	169.03
315.0	273.43	277.76	286.65	292.56	281.53	256.28	238.50	218.59	164.59
360.0	272.87	275.91	280.69	288.45	282.88	261.06	239.63	227.08	183.15

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	97.88	34.43	19.91	7.54	4.67	3.49	2.76	2.36	2.08
45.0	91.63	35.83	19.13	9.34	4.95	3.49	2.76	2.36	2.14
90.0	84.54	33.02	14.96	8.66	4.89	3.43	2.81	2.42	2.14
135.0	97.09	36.84	16.26	10.58	5.40	3.60	2.93	2.59	2.31
180.0	80.55	29.93	13.95	7.82	4.61	3.38	2.76	2.31	2.03
225.0	82.41	27.39	13.73	7.59	4.44	3.32	2.64	2.25	1.97
270.0	89.83	31.39	15.36	7.82	4.56	3.38	2.76	2.31	1.97
315.0	78.53	26.16	16.71	6.30	4.16	3.26	2.59	2.31	2.03
360.0	97.88	34.43	19.91	7.54	4.67	3.49	2.76	2.36	2.08

C/γ(°)	90.0
0.0	1.58
45.0	1.52
90.0	1.58
135.0	1.80
180.0	1.86
225.0	1.69
270.0	1.52
315.0	1.52
360.0	1.58